

WASTEWATER TREATMENT PLANT OPERATOR II

Class Definition

Under supervision, operates and maintains Wastewater Treatment Plant equipment and facilities in accordance with the requirements for an Operator II as defined by the State Water Resources Control Board for a Class V Treatment Plant.

Distinguishing Characteristics

Wastewater Treatment Plant Operator II is the journey level class in the Wastewater Treatment Plant Operator series. Incumbents are responsible for the more complex duties in the operation of a modern Class V secondary wastewater treatment plant that includes an on-site electrical power generation facility. This class differs from Wastewater Treatment Plant Operator I in that the latter is the entry level class in the series, and from Senior Wastewater Treatment Plant Operator in that incumbents of the latter provide lead direction to lower level staff.

Typical Tasks

(This list is neither inclusive nor exclusive. Consequently, this information may not reflect Essential Functions for this class.)

Controls the treatment of wastewater and sludge through the operation of pumps, motors, and valves utilizing manual, automatic, and programmable systems.

Monitors and controls the performance of wastewater unit processes by a variety of methods including visual observation, physical measurement, sampling, testing, data collection/analysis, and mathematical calculations using related instrumentation, a local area network and distributed control systems.

Collects representative samples from various plant flows and unit processes for laboratory analysis.

Performs minor routine preventive maintenance, including lubrication of plant equipment, to maintain operating efficiency.

Maintains proper appearance and cleanliness of equipment and facilities.

May operate an on-site electrical power generation facility.

Monitors and operates high pressure hydraulic, pneumatic and power boiler systems.

Operates other related systems, such as, a winery stillage waste disposal facility, secondary effluent disposal and a water reclamation system.

May train subordinate operators in the various operational procedures and safety practices involved in the day-to-day operation of a wastewater treatment plant.

Performs related duties as required

Knowledge, Abilities, and Skills

Knowledge of the operation and maintenance of electric motors, pumps, and other mechanical/electrical equipment related to wastewater treatment.

Knowledge of wastewater plant physical characteristics, including location and configuration of piping and valves to provide more efficient operation of the facilities.

Knowledge of confined space hazards, procedures, and safety requirements.

Knowledge of the characteristics and safety requirements of the use of various chemicals used in the wastewater treatment industry, e.g., chlorine, ferric/ferrous chloride, polymer, etc.

Knowledge of the occupational hazards and safety precautions related to the operation of wastewater treatment plants.

Knowledge of the theory and operation of the various types of flow measuring equipment.

Knowledge of wastewater process control and associated mathematical calculations.

Ability to gather data and maintain accurate records pertinent to a wastewater treatment plant.

Ability to utilize a local area computer network and distributed control system in the routine operating and monitoring of the treatment facility and the collection and the maintenance of plant operational data.

Ability to interpret and apply laboratory analyses to plant process control and overall plant operation.

Ability to perform routine wastewater and sludge analyses.

Ability to correctly use self-contained breathing apparatus.

Ability to correctly read and interpret wastewater instrumentation.

Ability to follow oral and written instructions and make brief oral and written reports on plant operations.

Skill in the use of tools necessary to operate and maintain pumps and other related plant equipment.

Skill in the collection of samples which are representative of various plant flows and unit processes.

Minimum Qualifications

Possession of a Wastewater Treatment Plant Operator Grade II Certificate issued by the State Water Resources Control Board and six months satisfactory experience as a City of Fresno Wastewater Treatment Plant Operator I.

Necessary Special Requirement

Possession of a valid California Driver's License may be required.

APPROVED: _____
Director

DATE: _____

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